

ABSTRACT

A digital camera module, an apparatus and method of assembling the digital camera module are disclosed. The 5 digital camera module includes a barrel having external threads on an external surface thereof, with one or more lenses set in the barrel, and an assembling plate mounted to an upper surface of the barrel. A camera module housing is assembled with the barrel, and has an internally threaded opening through which 10 the barrel is mounted to the housing. The digital camera module also has an image sensor converting an image of a subject into an electrical image signal, and a substrate having an electronic circuit, with the image sensor installed on the substrate. The method of assembling the digital camera module 15 comprise holding a plurality of barrels, each having a magnetic assembling plate, in a jig having a first magnet; assembling one or more lenses in each of the barrels held in the jig so as to align the lenses in the barrel; attaching each of the barrels having the lenses to an assembling handler having a 20 second magnet; and assembling each of the barrels to a camera module housing by manipulating the assembling handler. The apparatus for assembling a digital camera module is comprised of the jig and the assembling handler.